

EXHIBIT B

MAGNETOM Trio, A Tim System 3T Images

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MAGNETOM Trio, A Tim System 3T Images



Neurology

- Excellent grey-white matter contrast at very high in-plane resolution achieved with the 12-element Head Matrix coil



Neurology

- Visualize intracranial bleeding, blood products and venous structures like never before with *syngo* SWI.

Head, PD TSE FatSat transversal.

TR: 3500 ms, TE: 22 ms, TA: 3:44 min, SL: 5 mm, slices: 25, FoV: 200 mm, matrix: 768, mode: CP.

12-element Head Matrix

Courtesy of WM Beaumont Hospital, Royal Oak, USA



Neurology

- Visualize distal arterial branches and small vessels with the signal provided by combining 3T and Tim.



Neurology

- Tim's ability to seamlessly combine coils enables high resolution imaging in the most difficult regions such as here where 22 Tim elements cover the head-neck-spine region.

Angio Head, 3D FLASH ToF, MIP, 7-year-old, GRAPPA 2, right basal ganglia stroke.

TR: 28 ms, TE: 3.7 ms, TA: 7:18 min, eff. SL: 1.2 mm, partitions: 72, FoV: 200 mm, matrix: 512, mode: Triple.

12-element Head Matrix

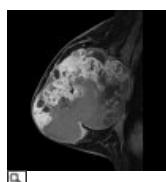
Courtesy of Children's Hospital, Philadelphia, USA



Neurology

Accuracy Local and Total

- FLASH with GRAPPA 2, matrix 320 and SL 3 mm
- WholeCNS imaging in 2 steps without patient or coil repositioning
- Measurement performed using 40 Tim Matrix elements



Oncology

Clinical breast imaging at 3T of patient with cytosarcoma

- syngo* VIEWS for high spatial and temporal resolution
- Standard on all Tim systems
- Fast imaging with GRAPPA 2, effective SL 1.5 mm and partitions 224

WholeSPINE, T1 FLASH opposed phase sagittal, 2 steps, GRAPPA 2, tuberculosis.

TR: 310 ms, TE: 6.2 ms, TA: 2 x 2:29 min, SL: 3 mm, slices: 13, 860 mm, matrix: 320, mode: Triple.

12-element Head Matrix

4-element Neck Matrix

24-element Spine Matrix

6-element Body Matrix

Breast, VIEWS sagittal, GRAPPA 2, cytosarcoma. TR: 8 ms, TE: 4.1 ms, TA: 3:34 min, eff. SL: 1.5 mm, partitions: 224, FoV: 180 mm, matrix: 320, mode: Triple.

4-Channel Breast Array coil

Courtesy of Hong Kong Sanatorium & Hospital, Happy Valley, Hong Kong

Product Details

Overview

Business

Clinical Application

Patient Benefits

Technical Specifications

Information Gallery

Images

Customer Care

Service

Education

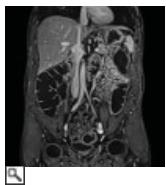
Investment Protection

Related Products & Services

Coils

Clinical Applications

Courtesy of PKU Third Hospital, Beijing, P.R. China



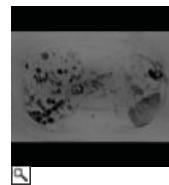
Body
Differentiate in the practice with Tim

- Abdominal MRI powered by 24 Tim elements
- Effective SL 1.2 mm 3D VIBE with up to 50 cm FoV and homogeneous fat saturation
- Excellent visualization of the dark lumen for polyp screening

Body, 3D VIBE coronal, GRAPPA 2.
TR: 2.7 ms, TE: 1.2 ms, TA: 21 s, eff. SL: 1.5 mm, partitions: 128, FoV: 420 mm, matrix: 256, mode: Triple.

24-element Spine Matrix
6-element Body Matrix

Courtesy of University Hospital Grosshadern, Munich, Germany



Body

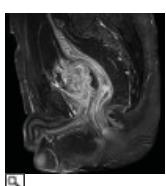
- Sharp PET-like contrast in the liver provided by REVEAL and 2D PACE, visualizes areas with low diffusivity that can be associated with primary and metastatic lesions, scanned with 12 Tim elements.

Body, REVEAL b 1000 trace transversal, GRAPPA 2, invert, metastases.

TR: 3900 ms, TE: 81 ms, TA: 0.11 s/slice, SL: 6 mm, slices: 21, FoV: 350 mm, matrix: 192, mode: CP.

24-element Spine Matrix
6-element Body Matrix

Courtesy of Hong Kong Sanatorium & Hospital, Happy Valley, Hong Kong



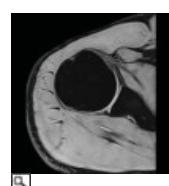
Body

- 3T MRI powered by 12 Tim elements showing carcinoma in the male pelvis.

Pelvis, T1 TSE FatSat sagittal, GRAPPA 2.
TR: 510 ms, TE: 10 ms, TA: 1:19 min, SL: 4 mm, slices: 19, FoV: 240 mm, matrix: 256, mode: Triple.

24-element Spine Matrix
6-element Body Matrix (2x)

Courtesy of Xuanwu Hospital Cums, Beijing, P.R. China



Orthopedics

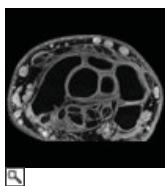
- High isotropic resolution imaging of shoulder, with excellent off-center fat saturation scanned with the 4-Channel Shoulder Array coil.

Shoulder, 3D MEDIC transversal, GRAPPA 2, isotropic.

TR: 41 ms, TE: 18 ms, TA: 4:56 min, eff. SL: 1.5 mm, partitions: 60, FoV: 129 mm, matrix: 320, mode: CP.

4-Channel Shoulder Array coil

Courtesy of CGMH, Taipei, Taiwan



Orthopedics

- Exquisite detail wrist imaging with the 8-Channel Wrist coil at 0.3 mm isotropic resolution

Wrist, T1 3D VIBE water excitation transversal, GRAPPA 2.
TR: 12 ms, TE: 5.2 ms, TA: 4:31 min, eff. SL: 0.3 mm, partitions: 144, FoV: 100 mm, matrix: 320, mode: Triple.

8-Channel Wrist coil



Angiography
syngo TimCT angiography for peripheral MRA

- TimCT with $0.9 \times 1.2 \times 1.2 \text{ mm}^3$ resolution, acquired in 58 seconds with table speed 2.2 cm/s
- From step by step to continuous move
- Powered by Tim

TimCT angio, MIP, GRAPPA 2, multiple stenoses.
TR: 2.3 ms, TE: 1.0 ms, total TA: 58 s, eff. SL: 1.2 mm, partitions: 88, FoV: 1280 mm, matrix: 384.

36-element PA Matrix
6-element Body Matrix (2x)
24-element Spine Matrix

Courtesy of University Hospital Grosshadern, Munich, Germany

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